

# Subject index of volume 67

- Absorption 44, 85, 262  
 Acetone 107, 358  
 Acetylator genotype 445  
 Acetylcholinesterase 66, 220  
 N-Acetyl- $\beta$ -D-glucosaminidase (NAG) 145, 224  
 N-Acetyltransferase 445  
 AChE 422  
 Acrylonitrile 164  
 ACTH<sub>4-9</sub> analog 325  
 Active oxygen 497  
 Adhesion receptors 1  
 Adrenal 622  
 Aflatoxin B<sub>1</sub> 379  
 Airborne chemicals 478  
 Airborne particulates 98  
 ALA synthetase 294  
 Alkaline elution 34  
 Allyl alcohol 244  
 Amino aciduria 696  
 Amoscanate 120  
 4-Aminophenol 613, 696  
 Andromedotoxin 148  
 Aniline 237  
 Aniline hydroxylase 294  
 Antibodies 66  
 Antiestrogens 49  
 Antioxidants 667, 691  
 Apoptosis 231, 318  
 Aristolochic acid 307  
 ARL 18 565  
 Arochlor 358  
 Arsenic 358, 580  
 Arsenic trioxide 580  
 Arthropathia 411  
 Aryl hydrocarbon hydroxylase 98  
 Arylamine N-acetyltransferase 445  
 Ascorbic acid 126, 613, 686  
 AT-125 613, 696  
 Atrazine 85
- Bay Q 6841 411  
 Bay V 3545 411  
 Bay W 8801 411  
 Beech wood 586  
 Benzene 237, 358, 461  
 Benzo(a)pyrene 468  
 Benzphetamine-N-demethylase 294  
 Benzphetamine 237  
 S-Benzyl-N-acetylcysteine 647  
 BHT-CHO 552  
 BHT-peroxyquinol 552  
 BHT-quinone 552  
 Biological monitoring 224  
 Biomarkers 244  
 Bis(2-methylethyl)ether 531  
 Bis(tri-n-butyltin)oxide 186  
 Biotransformation 651  
 Blood gases 428  
 Bradyarrhythmia 193  
 Brain 325, 422  
 Brain cell culture 325  
 Breathing pattern 478  
 Bromobenzene 244  
 Bromodeoxyuridine (BrdU) 622  
 Bromomethane 164
- Brush-border membrane 262  
 1,3-Butadiene 34, 151  
 Butadiene monoxide 151  
 Buthionine sulfoxime 164, 605  
 Butylated hydroxytoluene 552  
 tert-Butylhydroperoxide 401
- CBDP 706  
 C57BL/6J mouse 453  
 Cadmium 113, 352, 358  
 Cadmium chloride 491  
 Calcium antagonists 294  
 Calcium ions 686  
 Callithrix jacchus 1  
 Carbachol 330  
 Carbamylcholine 478  
 Carbides 347  
 Carbon monoxide 297  
 Carbon tetrachloride 244, 358, 379, 392, 547, 686  
 Carbon-cobalt mixture 347  
 Carboplatin 338  
 Carboxylesterase 706  
 Catecholamines 422  
 Cell proliferation 622  
 Chemiluminescence 369  
 Chick embryo 98, 318  
 Chlorobenzene 237, 358  
 2-Chlorobenzylchloride 478  
 2-Chloro-4-ethylamino-6-isopropylamine-s-triazine 85  
 Chloroform 358  
 Cholinergic antagonists 302  
 Cholinesterase 79, 637  
 Chondrocytes 411  
 Chromium 358  
 Cigarette smoking 667  
 Ciprofloxacin 411  
 Circulation 428  
 Cisplatin 325, 338  
 Cleft palate 591  
 Closed-chamber technique 151, 517  
 Cobalt 330  
 Colchicine 392  
 Colon 445  
 Colorectal cancer 445  
 Connexin 43 expression 565  
 Contact allergen 629  
 Copper 312  
 Creatine 244  
 Cupric oxide 312  
 Cypermethrin 510  
 Cytochrome P450 92, 179, 237, 294, 379, 514  
 Cytotoxicity 76, 674
- DATSA 580  
 DBTSA 580  
 Debrisoquine 514  
 DEDMS 580  
 Degeneration 277  
 Developmental toxicity 297  
 Diabetogen 61  
 1,4-Diazabicyclo [2.2.2]octane 365  
 3,3'-Dichlorobenzidine 141  
 1,2-Dichloroethane 358
- 1,1-Dichloroethylene 358, 605  
 1,2-trans-Dichloroethylene 358  
 Dichloromethane 164  
 Dichlorophenyl 416  
 Diethyldithiocarbamate 517  
 Diethylene glycol 655  
 Diethylhexyl phthalate 358  
 Diglyme 531  
 2,5-Dimethylfuran 365  
 2,6-Dioxopiperidine 1  
 2-(2,6-Dioxopiperidine-3-yl)-phthalimide 1  
 DiPDMS 580  
 Dithiothreitol 547  
 Dithiothreitol tetraacetate 547  
 DMDMS 580  
 DMPS 428  
 DMSA 428, 580  
 DNA adduct 712  
 DNA damage 586  
 DNA fragmentation 318  
 DNA-DNA cross-links 34  
 DNA-protein cross-links 34  
 DNase I 318  
 DnPDMS 580  
 Dopamine receptor 514  
 Dosimetry 28,  
 Dye transfer 565
- EDTA 76  
 Electron spin resonance 126  
 Electrophysiology 435  
 Electroretinography 120  
 EM 12 1  
 Embryotoxicity 164  
 Enamel 573  
 Endotoxin 502  
 Enzyme kinetics 18  
 Enzyme polymorphism 164  
 Enzyme reactivation 637  
 Eosinophilia-myalgia syndrome 284, 290  
 Erythrocytes 164  
 Ethanol 107, 473, 531  
 Ethionine 244  
 Ethoxycoumarine-O-deethylase 98, 294  
 Ethoxyresorufin-O-deethylase 294  
 Ethyl mercury 365  
 Ethylbenzene 237, 358  
 Ethylene 227  
 Ethylene oxide 164, 712  
 Ethylmorphine 237  
 Ethylmorphine-N-demethylase 294  
 1,2-Epoxybutene-3 151
- Ferrihaemoglobin 428  
 Ferrochelate 179  
 Fluzafop butyl 44, 255  
 Fluoride 573  
 Fomesafen 255  
 Free radicals 126
- GABA 302  
 Gap junction 565  
 Gas chromatography 647  
 GC-MS 28  
 Genotoxicity 586  
 Gentamicin 145  
 Ginseng 667  
 Glioma 491  
 Glutathione 151, 164, 401, 605, 686, 696  
 Glutathione peroxidase 680

# Subject index of volume 67

- Absorption 44, 85, 262  
 Acetone 107, 358  
 Acetylator genotype 445  
 Acetylcholinesterase 66, 220  
 N-Acetyl- $\beta$ -D-glucosaminidase (NAG) 145, 224  
 N-Acetyltransferase 445  
 AChE 422  
 Acrylonitrile 164  
 ACTH<sub>4-9</sub> analog 325  
 Active oxygen 497  
 Adhesion receptors 1  
 Adrenal 622  
 Aflatoxin B<sub>1</sub> 379  
 Airborne chemicals 478  
 Airborne particulates 98  
 ALA synthetase 294  
 Alkaline elution 34  
 Allyl alcohol 244  
 Amino aciduria 696  
 Amoscanate 120  
 4-Aminophenol 613, 696  
 Andromedotoxin 148  
 Aniline 237  
 Aniline hydroxylase 294  
 Antibodies 66  
 Antiestrogens 49  
 Antioxidants 667, 691  
 Apoptosis 231, 318  
 Aristolochic acid 307  
 ARL 18 565  
 Arochlor 358  
 Arsenic 358, 580  
 Arsenic trioxide 580  
 Arthropathia 411  
 Aryl hydrocarbon hydroxylase 98  
 Arylamine N-acetyltransferase 445  
 Ascorbic acid 126, 613, 686  
 AT-125 613, 696  
 Atrazine 85
- Bay Q 6841 411  
 Bay V 3545 411  
 Bay W 8801 411  
 Beech wood 586  
 Benzene 237, 358, 461  
 Benzo(a)pyrene 468  
 Benzphetamine-N-demethylase 294  
 Benzphetamine 237  
 S-Benzyl-N-acetylcysteine 647  
 BHT-CHO 552  
 BHT-peroxyquinol 552  
 BHT-quinone 552  
 Biological monitoring 224  
 Biomarkers 244  
 Bis(2-methylethyl)ether 531  
 Bis(tri-n-butyltin)oxide 186  
 Biotransformation 651  
 Blood gases 428  
 Bradyarrhythmia 193  
 Brain 325, 422  
 Brain cell culture 325  
 Breathing pattern 478  
 Bromobenzene 244  
 Bromodeoxyuridine (BrdU) 622  
 Bromomethane 164
- Brush-border membrane 262  
 1,3-Butadiene 34, 151  
 Butadiene monoxide 151  
 Buthionine sulfoxime 164, 605  
 Butylated hydroxytoluene 552  
 tert-Butylhydroperoxide 401
- CBDP 706  
 C57BL/6J mouse 453  
 Cadmium 113, 352, 358  
 Cadmium chloride 491  
 Calcium antagonists 294  
 Calcium ions 686  
 Callithrix jacchus 1  
 Carbachol 330  
 Carbamylcholine 478  
 Carbides 347  
 Carbon monoxide 297  
 Carbon tetrachloride 244, 358, 379, 392, 547, 686  
 Carbon-cobalt mixture 347  
 Carboplatin 338  
 Carboxylesterase 706  
 Catecholamines 422  
 Cell proliferation 622  
 Chemiluminescence 369  
 Chick embryo 98, 318  
 Chlorobenzene 237, 358  
 2-Chlorobenzylchloride 478  
 2-Chloro-4-ethylamino-6-isopropylamine-s-triazine 85  
 Chloroform 358  
 Cholinergic antagonists 302  
 Cholinesterase 79, 637  
 Chondrocytes 411  
 Chromium 358  
 Cigarette smoking 667  
 Ciprofloxacin 411  
 Circulation 428  
 Cisplatin 325, 338  
 Cleft palate 591  
 Closed-chamber technique 151, 517  
 Cobalt 330  
 Colchicine 392  
 Colon 445  
 Colorectal cancer 445  
 Connexin 43 expression 565  
 Contact allergen 629  
 Copper 312  
 Creatine 244  
 Cupric oxide 312  
 Cypermethrin 510  
 Cytochrome P450 92, 179, 237, 294, 379, 514  
 Cytotoxicity 76, 674
- DATSA 580  
 DBTSA 580  
 Debrisoquine 514  
 DEDMS 580  
 Degeneration 277  
 Developmental toxicity 297  
 Diabetogen 61  
 1,4-Diazabicyclo [2.2.2]octane 365  
 3,3'-Dichlorobenzidine 141  
 1,2-Dichloroethane 358
- 1,1-Dichloroethylene 358, 605  
 1,2-trans-Dichloroethylene 358  
 Dichloromethane 164  
 Dichlorophenyl 416  
 Diethyldithiocarbamate 517  
 Diethylene glycol 655  
 Diethylhexyl phthalate 358  
 Diglyme 531  
 2,5-Dimethylfuran 365  
 2,6-Dioxopiperidine 1  
 2-(2,6-Dioxopiperidine-3-yl)-phthalimide 1  
 DiPDMS 580  
 Dithiothreitol 547  
 Dithiothreitol tetraacetate 547  
 DMDMS 580  
 DMPS 428  
 DMSA 428, 580  
 DNA adduct 712  
 DNA damage 586  
 DNA fragmentation 318  
 DNA-DNA cross-links 34  
 DNA-protein cross-links 34  
 DNase I 318  
 DnPDMS 580  
 Dopamine receptor 514  
 Dosimetry 28,  
 Dye transfer 565
- EDTA 76  
 Electron spin resonance 126  
 Electrophysiology 435  
 Electroretinography 120  
 EM 12 1  
 Embryotoxicity 164  
 Enamel 573  
 Endotoxin 502  
 Enzyme kinetics 18  
 Enzyme polymorphism 164  
 Enzyme reactivation 637  
 Eosinophilia-myalgia syndrome 284, 290  
 Erythrocytes 164  
 Ethanol 107, 473, 531  
 Ethionine 244  
 Ethoxycoumarine-O-deethylase 98, 294  
 Ethoxyresorufin-O-deethylase 294  
 Ethyl mercury 365  
 Ethylbenzene 237, 358  
 Ethylene 227  
 Ethylene oxide 164, 712  
 Ethylmorphine 237  
 Ethylmorphine-N-demethylase 294  
 1,2-Epoxybutene-3 151
- Ferrihaemoglobin 428  
 Ferrochelataase 179  
 Fluzafop butyl 44, 255  
 Fluoride 573  
 Fomesafen 255  
 Free radicals 126
- GABA 302  
 Gap junction 565  
 Gas chromatography 647  
 GC-MS 28  
 Genotoxicity 586  
 Gentamicin 145  
 Ginseng 667  
 Glioma 491  
 Glutathione 151, 164, 401, 605, 686, 696  
 Glutathione peroxidase 680

- Glutathione reductase 680  
 Glutathione-S-transferase 164  
 Glycoprotein 268  
 Glycosuria 696  
 Grayanotoxin 148  
 Groundwater contaminants 358  
 GSH 497  
  
 Halogenated hydrocarbons 605  
 Haptens 66  
 Heart rate 193  
 Heme oxygenase 294  
 Hemoglobin adducts 28  
 Hepatic porphyria 179  
 Hepatocellular carcinoma 49  
 Hepatocellular regeneration 392  
 Hepatocyte cultures 255  
 Hepatocytes 107, 369, 674, 680  
 Hepatotoxicity 244  
 HepG2 cells 255  
 2,2',3',4',5',5'-Heptachlorobiphenyl 651  
 n-Hexane 277  
 2,5-Hexanediol 277, 435  
 HI-6 212  
 Histamine 514  
 Histidine 365  
<sup>1</sup>H NMR 696  
 Honey, toxic 148  
 Hydrazine 244  
 7-(2-Hydroxyethyl)guanine 712  
 Hypothermia 72  
  
 Immunocytochemistry 622  
 Induction 92, 98, 473  
 Inflammatory responses 312  
 Inhalation 55, 373  
 Inhalation exposure 141  
 Integrins 1  
 Interactions 453  
 Interferon 205  
 Irradiation 358  
 Ischemia-reperfusion 502  
  
 Kampo drugs 145  
 Kidney 338, 502, 605, 622  
 Kidney cell cultures 76  
  
 Lactate dehydrogenase 369  
 Lactic aciduria 696  
 LDH 497  
 Lead 200, 358  
 LE-like cells 691  
 Light 277, 435  
 Lipid peroxidation 200, 686  
 Lipoproteins 200  
 Lithocholate 244  
 Liver 34, 502, 538, 622  
 Liver injury 392, 547  
 LLC-PK1 cells 113  
 Lung 34  
 Lung mast cells 373  
 Lymph node 629  
 Lymphocyte proliferation 629  
 Lymphocyte subtypes 1  
  
 Macrophage 205, 347  
 Malondialdehyde 145  
 Marmoset 1, 706  
 Menadione 674  
 Mercuric chloride 422, 491  
  
 Mercury 358  
 Metallothionein 61, 312  
 Methionine 365  
 Methoxyacetic acid 531  
 Methyl bromide 164  
 1-Methyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline 514  
 Methylene chloride 164, 358  
 Methylglyoxal 369  
 Methyl mercury 205, 268, 365  
 (2-Methoxyethoxy) acetic acid 531  
 N-Methyl L-protoporphyrin 179  
 Micronucleus 586  
 Microsomes 92  
 Mixtures 358, 453, 598  
 Morphometry 277  
 MPTP 514  
 MTCA 284, 290  
 Muconaldehyde 461  
 Myelin 268  
 Myelotoxicity 358  
  
 NADPH-cytochrome c reductase 294  
 Nalidixic acid 411  
 NaN<sub>3</sub> 365  
 β-Naphthoflavone 379  
 α-Naphthylisothiocyanate 244  
 Nasal epithelium 586  
 Nephrotoxicity 145, 224, 307, 338, 605, 613, 696  
 Nerve agents 637  
 Neuroblastoma 491  
 Neuroleptics 514  
 Neurotoxicity 491  
 Nickel 330, 358  
 Nitrendipine 330  
 Nonlinear regression 227  
  
 OK cell 338  
 OOS-TMP 72  
 Operant conditioning 422  
 ORG.2766 325  
 Organophosphorus compounds 66, 79, 212, 220, 302, 416, 637  
 Osteoblasts 352  
 Osteoclasts 352  
 Oxadiazon 255  
 Oxidative stress 547, 680  
 Oximes 637  
 Oxime treatment 212  
 Oxyfluorfen 255  
  
 Pancreas 622  
 Pancreatic islets 61  
 Paraquat 126, 262  
 PCBs 453, 598  
 PCDDs/PCDFs 591, 598  
 Peak E substance 284, 290  
 Peripheral nerve 268, 297  
 Permethrin 510  
 Phagocytosis 205  
 Pharmacokinetics 473, 517  
 Phenobarbital 107  
 Phenobarbitone 622  
 Phenol 358  
 Phenylhydroxyethyl ester 28  
 Phospholipase 379  
 Phosphoramidate 416  
 Phosphoric triester hydrolases 416  
 Photodegradation 365  
  
 Pigment yellow 17 141  
 Ping-pong mechanism 151  
 Pituitary 622  
 Platinum 338  
 Porphyria 651  
 Porphyrins 179, 255  
<sup>32</sup>P-Postlabelling 586  
 Pralidoxime methylsulphate 79  
 Prenatal exposure 297  
 Primary culture 338  
 Probenecid 613  
 Procainamide 691  
 Prostaglandin H synthase 379  
 Protein adducts 468  
 Proteoglycans 411  
 Proximal tubule cell 338  
 Proximal tubules 605  
 Pulmonary clearance 312  
 Pyrethroids 510  
 Pyridinium compounds 126  
 Pyridostigmine 212  
 Pyrrolizidine alkaloids 39  
  
 Quinacrine 379  
 Quinolones 411  
  
 Rat hepatocytes 497  
 Reactive oxygen 347, 365, 369, 401  
 Reflex 302  
 Respiration 428  
 Respiratory sensitivity 373  
 Retina 435  
 Retinal 277  
 Retinal degeneration 120  
 Retinopathy 120  
 Retrosine 39  
 Retrosine-N-oxide 39  
 Rhododendron 148  
 Risk assessment 591  
 Risk extrapolation 151  
  
 Sairei-to 145  
 Sarin 302  
 Scanning electron microscopy 573  
 SCE 164  
 Scoparone 92  
 Selenite 497  
 Selenium 691  
 Semiconductor 55  
 Seminiferous tubules 131  
 Sensitisation test 629  
 Seotonin 422  
 Sertoli cells 131  
 Silane 55  
 Single-strand breaks 34,  
 Singlet oxygen 365  
 Skin 44, 85  
 Sleep apnea 193  
 Smooth muscle 212, 330  
 SOD 497  
 Soman 220, 706, 637  
 Species scaling 517  
 Spinal cord 302  
 Spinal inhibition 302  
 Statistical modelling 227  
 Stereology 131  
 Streptozotocin 61  
 Styrene 18, 28, 237, 517  
 Styrene oxide 18, 28  
 Suicide substrate 179

Sunlight 365  
Superoxide anion 497  
Superoxide dismutase 200  
Supidimide 1  
Surface binding 113  
Synergism 358

Tamoxifen 49  
Taurine 244, 538  
TBARS 497, 691  
TBTO 186  
TCDD 558, 591  
TDI 373  
TE-equivalents 591  
Teeth 573  
Temperature 72  
Testis 131, 622

Testosterone 131  
Tetrachloroethylene 358  
Thalidomide 1  
Thioacetamide 244  
Thiol homeostasis 674  
Thiols 428  
Thymic atrophy 231  
Thymus 186, 558  
Thyroid 622  
Toluene 107, 237, 358, 647  
Toluene diisocyanate 373  
Toremifene 49  
Toxicokinetics 598, 651, 655, 706  
Toxogonin 212  
Transplatin 338  
Tributyltin 231  
1,1-Trichloroethane 358

Trichloroethylene 193, 224, 358  
Trypan blue 369  
Tryptophan 284, 290  
Tumor promoters 565

Verapamil 330  
Vinylidene chloride 605  
VX derivatives 66

Whole-embryo culture 164  
Wood dust 586

Xylene 237, 358, 473

Zinc 61

